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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/623,807	07/22/2003	Kotoyoshi Murakami	740819-1024	5277
22204	7590 06/16/2005	EXAMINER		INER
NIXON PEABODY, LLP			OMGBA, ESSAMA	
401 9TH STREET, NW SUITE 900			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20004-2128			3726	
		DATE MAILED: 06/16/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/623,807	MURAKAMI, KOTOYOSHI			
Office Action Summary	Examiner	Art Unit			
	Essama Omgba	3726			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period volume to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. I the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
 Responsive to communication(s) filed on <u>28 M</u> This action is FINAL. 2b) This Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro				
Disposition of Claims		•			
4) ☐ Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine					
	epted or b) objected to by the				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau	s have been received. s have been received in Applicati ity documents have been receive	ion No			
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) X Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summary Paper No(s)/Mail Da				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>5/11/05</u> .		Patent Application (PTO-152)			

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DETAILED ACTION

1. The indicated allowability of claims 1-8 is withdrawn in view of the newly discovered reference(s) to Seiji et al. (JP 2002-06670). Rejections based on the newly cited reference(s) follow.

Claim Objections

2. Claims 9-16 are objected to because of the following informalities: in claim 9, line 5, "surface" should read --surfaces--, in line 13, --being configured-- should be inserted after "means" and in line 19, a semi-colon (;) should be inserted at the end of the line; in claim 14, line 5, "the superimposed surface" should read --- superimposed surfaces--, and in line 15, "is" should read --being configured--. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Claims 1, 6, 9 and 14 recite the limitation "the distal end of the junction tool" in lines 11, 13, 15-16 and 18 respectively. There is insufficient antecedent basis for this limitation in the claims.

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Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1, 9 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (AAPA) in view of Seiji et al. (JP 202-066760). With regards to claims 1 and 9, Applicant, at pages 1-3 of the specification to be known as AAPA, discloses a junction device and a junction method for joining a workpiece made of a plurality of plate materials superimposed in their thickness directions at points, the method utilizing a junction tool which is configured by first and second tools placed on a junction axis substantially perpendicular to the superimposed surfaces of the workpiece while nipping the workpiece therebetween and which has a pin protruding from a distal end surface of the first tool along the junction axis and a second tool which has a flat distal end surface wherein while the first tool is rotated, the workpiece is nipped by the junction tool and pressed, then the pin of the first tool is sunk into the workpiece, then the workpiece is softened by friction generated by the rotation of the first tool, plastic flow is generated within the workpiece by rotation of the first tool, the vicinity of the superimposed surface of the workpiece is agitated by the plastic flow, after the agitation is sufficiently performed within the workpiece, the first tool is pulled from the workpiece and the softened plate materials are cured. AAPA does not disclose

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a recess depressed at a distal end surface of the second tool along the junction axis.

However Seiji et al. teaches in a junction device and a junction method for joining a

workpiece made of a plurality of plate materials that the concave portion 3a of the first

tool 1 and the concave portion 5a of the second tool can be provided at either one or

both, furthermore a pin-shaped concave portion can be provided instead of the concave

portion 3a, see paragraphs 24 and 25 of the on-line translation. Therefore it would have

been obvious to one of ordinary skill in the art at the time the invention was made, to

have provided the second tool of AAPA with a recess depressed at its distal end

surface, in light of the teachings of Seiji et al., in order to form a better joint.

For claim 12, see figures 1 and 2 of Seiji et al.

Allowable Subject Matter

- 8. Claims 2-5, 10, 11 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 9. Claims 6-8 and 14-16 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Essama Omgba whose telephone number is (571) 272-4532. The examiner can normally be reached on M-F 9-6:30, 1st Friday off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on (571) 272-4690. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Essama Ømgba Primary Examiner Art Unit 3726

eo June 11, 2005